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USES FOR COTTON

Selected References in the English Language

Compiled by Mildred C. Benton, under the
Direction of Emily L. Day, Library Specialist in Cotton Marketing
Division of Cotton Marketing Branch Library

Washington, D. C.
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This bibliography lists references to books, pamphlets, and periodical articles which show the variety of uses for cotton. No attempt has been made to include references to uses for cotton seed and cottonseed products, although several such uses appear in connection with other references. With a few exceptions the period covered is 1910 to November, 1932 inclusive. Because of their interest and historical value, a small number of books published earlier - one as early as 1835 - appear in the list.

Sources consulted:

Card catalogues of the following libraries:

U. S. Department of Agriculture Library
Bureau of Agricultural Economics Library
Division of Cotton Marketing Library

Indexes:

Agricultural Index, 1916-Oct., 1932
Industrial Arts Index, 1913-Oct., 1932
International Index to Periodicals, 1920-Sept., 1932
Public Affairs Information Service, 1915-Nov. 5, 1932
Readers Guide to Periodical Literature, 1900-Oct., 1932

BOOKS

1. Baines, Edward. History of the cotton manufacture in Great Britain. 543 p. London, H. Fisher, R. Fisher and P. Jackson, 1835. 304 B16H
In the introductory chapters mention is made of the very earliest uses of cotton. We are informed that the Mexicans made large webs of cotton. It is said that among the presents sent by Cortes, the conqueror of Mexico, to Charles V, were "cotton mantles...waistcoats, handkerchiefs, counterpanes, tapestries and carpets of cotton."...They also used cotton in making a species of paper; one of their kinds of money consisted in small cloths of cotton and their warriors wore cuirasses of cotton, covering the body from the neck to the waist."
2. Bigwood, George. Cotton. 204p., illus. London, Constable and company, ltd., 1913. 72 B48
Chapter XII, A general utility plant.
3. Burkett, C. W. Cotton, its cultivation, marketing, manufacture, and the problems of the cotton world. 331p., illus. New York, Doubleday, Page & co., 1906. 72 B91
Cotton both clothes and feeds mankind, p. 6-9.

4. Chew, M. R. History of the Kingdom of cotton and cotton statistics of the world... 96p., illus. New Orleans, Printed by W. B. Stansbury & co., 1884. 72 C42
Contains brief references to the very earliest uses of cotton among the Egyptians and Greeks, also the first use for cotton in England in 1300 A.D. for candle wicks.

5. Collings, G. H. The production of cotton. 256p. New York, John Wiley & sons, inc., 1926. 72 C69
By-products of the cotton plant, Chapter XVIII.
Feeding value of cotton, Chapter XIX.

6. Crawford, M. D. C. Heritage of cotton; the fiber of two worlds and many ages. 244p. N. Y., G. P. Putnam's sons, 1931. 304 C85
This book was written in an effort "to induce men to look again upon cotton as one of the subtlest mediums of art." It treats the subject of cotton historically from the viewpoint of its usefulness in the creation of artistic fabrics.

7. Crowther, Samuel. A basis for stability. 360p. Boston, Little, Brown and company, 1932. 280.12 C88
"The Cotton Textiles," by George A. Sloan, chapter 19, p. 247-260.
As an "expert witness" Mr. Sloan was asked to contribute this chapter in which he attempts to show that "there are no good reasons why the cotton manufacturing industry should not be one of the soundest and most profitable in the country." He speaks of the versatility of the cotton fiber and describes many of the novel means which help to make up the almost 900 uses for cotton.

8. Dana, W. B. Cotton from seed to loom; a handbook of facts for the daily use of producer, merchant and consumer. 291p. New York, William B. Dana & co., 1878. 72 D19
In writing the history of cotton, the author quotes from a letter by a Mr. Jefferson addressed to M. de Warville under date of August 15, 1786 in which he says, 'the four southernmost states make a great deal of cotton. The poor are almost entirely clothed in it winter and summer. In winter they wear shirts of it, and outer clothing of cotton and wool mixed. In summer their shirts are linen, but the outer clothing is cotton. The dress of the women is almost entirely of cotton manufactured by themselves and even many of these wear a great deal of homespun cotton': p. 22-23.

9. Donnell, E. J. Chronological and statistical history of cotton. 650p. New York, James Sutton & co., 1872. 72 D715
The introduction and first chapter on the early history of cotton include frequent allusions to the use of cotton in early times. Reference to its use as clothing in America in 1875 is found on page 40.

10. Engberg, R. C. Industrial prosperity and the farmer. 286p. New York, The Macmillan company, 1927. 284.3 En32
Manufacture, consumption and uses of cotton, p. 144-147.

11. Goulding, Ernest. Cotton and other vegetable fibers; their production and utilization. 231p. London, John Murray, 1917. (Handbook of the Imperial Institute, no. 4.) 73 G73
The author refers briefly to the utilization of the different varieties of cotton.

12. Harding, Richard. Cotton in Australia. 270p. New York, Longmans, Green and co., 1924. 72 H21
Uses of cotton, p.2-4. Attempts to show how "the consumption of cotton must increase with the expansion of civilization... One hundred and fifty years ago cotton was scarcely known or used by civilization; today it forms the world's most essential textile, and it is impossible to foretell the future or prophesy where and when the demand for cotton and cotton goods will cease."

13. Hess, Katharine P. Textile fibers and their use. 354p. Chicago, Philadelphia, J. B. Lippincott company, c1931. 304 H46
Uses of cotton, p.195.

14. Johnson, W. H. Cotton and its production. 536p. London, Macmillan and co., limited, 1926. 72 J632
The extending uses for cotton, p.444-445.

15. King, F. H. Farmers of forty centuries, or permanent agriculture in China, Korea and Japan. 441p., illus. Madison, Wis., Mrs. F. H. King, 1911. 34.5 K58
In discussing home industries of the common people of China, mention is made of the method of beating cotton and of laying it to serve as the body for mattresses and the coverlets for beds, p.125.
The manufacture of cottonseed oil and cottonseed cake is also described as a family industry, p.145.

16. McGowan, Ellen B., and Waite, Charlotte A. Textiles and clothing. Rev. ed., 344p., illus. New York, The Macmillan company, 1931. 304 M17
Chapter IV, Cotton. Mentions the extensive use of cotton and in more detail discusses the finished products, such as yard goods, ready-made articles, household cottons, knitted goods, laces and embroideries, thread and notions.

17. Mitchell, C. A., and Prideaux, R. M. Fibres used in textile and allied industries. 194p. London, Scott, Greenwood & son, 1910. 304 M69
Chapters V-VI, Cotton. Brief reference is made to historic uses of cotton. "The antiquity of the use of cotton in the new world is shown by the fact that the gauze found in tombs of the ancient Peruvians in Guacho consists of cotton. Magellan found it being used as clothing by the Brazilians, and it was seen by Columbus in the West Indian Islands."

18. Ringo, Fredonia J. Linen and bedding. 119p. Chicago and New York, A. W. Shaw company, 1925. 304 R47L
As a manual or textbook for salespeople this volume brings out the use of cotton in bedding, and compares it in durability and suitability with silk, wool, and linen.

19. Robbins, W. W. The botany of crop plants; a text and reference book. 681p. Philadelphia, P. Blakiston's son & co., c1917. 463 R54
Uses of cotton, p.523-526. Brief references to cottonseed hulls, cottonseed oil, cottonseed meal and guncotton.

20. Royle, J. F. The fibrous plants of India fitted for cordage, clothing and paper... 403p. London, Smith, Elder and co., 1855. 73 R81
Cotton cordage and canvas, p.264. Of historical interest is the statement that "cotton, though used chiefly for clothing is, in India, also employed for tent-ropes, of which so many are required for the use of the army, and made entirely of cotton, as are the tents themselves. Cotton ropes are also employed for many domestic purposes. Some of the native shipping, also, and even a few American ships are rigged with cotton ropes; while cotton canvas is also employed for sails."

21. Scherer, J. A. B. Cotton as a world power. 452p. N. Y., Frederick A. Stokes company, c1916. 72 Sch23
References to uses for cotton are found on p.335-336 and p.354-358.

22. Small, C. P. How to know textiles. Enl. ed., 394p. Boston, New York, etc., Ginn and company, c1932. L.C.
Chapter XII, From cotton field to cotton fabric. Emphasizes importance of cotton as "the crop that clothes the world."
Throughout the book there are brief references to various uses for cotton.

23. Todd, J. A. The cotton world; a survey of the world's cotton supplies and consumption. 236p. London, New York, etc., Sir Isaac Pitman & sons, Ltd., 1927. 72 T562 Co
Chapter IV, The world's consumption of cotton and cotton goods. This chapter enumerates a number of uses for manufactured cotton.

24. Warshaw, H. T., ed. Representative industries in the United States. 702p. New York, Henry Holt and company, c1928. 297 W26
Chapter VII, The cotton industry, by C.T. Revere. Several pages are devoted to the importance of the cotton industry in its relation to other industries. The point is made that "every great industry is more or less dependent upon cotton" and to illustrate, several industries are mentioned together with their need for cotton.
Wilmore,

25. Wood, L. S., and / A. The romance of the cotton industry in England. 288p., illus. London, Oxford university press, 1927. 304 W852
Chapter II, The obscure beginnings of the cotton industry in England. Points out historical references to very early uses of cotton cloth.

PAMPHLETS

26. Cotton-textile institute, inc. Cotton bags for potatoes, fruits and nuts; a study of their present and potential use for retail packaging. 12p. N. Y., The Cotton-textile institute, inc., 1930.

27. Cotton-textile institute, inc. Qualities of cotton, by George A. Sloan, secretary... 15p. N. Y., The Cotton-textile institute, inc., 1928.
Brief discussion of the qualities which make possible the utilization of cotton for "thousands of purposes - for food, clothing, decoration, shelter, in industry, the arts, and in science."

28. Cotton-textile institute, inc. Special report on extending uses of cotton. 70p. N. Y., The Cotton-textile institute, inc., 1929.

29. Progressive Texans, inc. Proposed cotton products laboratory. 14p., multigr. n.p., 1931.
Explanation of need for a cotton products laboratory to provide for research on the utilization of cotton. Twenty-six uses for cotton are listed and an accompanying diagram points out the enormous possibilities in the development of new uses.

PUBLICATIONS OF THE U.S. DEPARTMENT OF AGRICULTURE

30. Campbell, Maude. Dresses for the little girl. U. S. Dept. Agr. Leaflet 26, 8p. 1928.
Suggested dresses of cotton materials.

32. Cheatham, R. J., and Fetrow, W. W. Cotton bags and other containers in the wholesale grocery trade. A preliminary report. U. S. Dept. Agr., Bur. Agr. Econ., Div. Cotton Marketing, Utilization Amer. Cotton Ser. 6, 16p., mimeogr. 1928.

33. Cheatham, R. J. Cotton bags in the fertilizer industry. U. S. Dept. Agr., Bur. Agr. Econ., Div. Cotton Marketing, Utilization Amer. Cotton Ser. 7, 5p., mimeogr. 1928.

34. Cheatham, R. J., Fetrow, W. W., and Farrington, C. C. Cotton consumption in power laundries of the U. S. - 1928. A preliminary report. U. S. Dept. Agr., Bur. Agr. Econ., Div. Cotton Marketing, Utilization Amer. Cotton Ser. 10, 16p., mimeogr. 1930.

35. Cheatham, R. J., and Wigington, J. T. Cotton picking sacks, cotton picking sheets, and tarpaulins used on cotton farms of the United States - 1929. U. S. Dept. Agr., Bur. Agr. Econ., Div. Cotton Marketing, Utilization Amer. Cotton Ser. 11, 11p., mimeogr. 1931.

36. Cheatham, R. J., Strang, P. M., and Cleaves, Florena. Farm uses for cotton and its products. A preliminary report. U. S. Dept. Agr., Bur. Agr. Econ., Div. Cotton Marketing, Utilization Amer. Cotton Ser. 3, 7p., mimeogr. 1928.

37. Cheatham, R. J. New uses for cotton; address, Farmers week, Clemson College, S. C., Aug. 7, 1929. 6p., mimeogr. Washington, U. S. Dept. Agr., Bur. Agr. Econ., Div. Cotton Marketing, 1929.

38. Cheatham, R. J., and Wigington, J. T. Use of cotton bags and other containers in flour mills of the United States - 1931. U. S. Dept. Agr., Bur. Agr. Econ., Div. Cotton Marketing, Utilization Amer. Cotton Ser. 13, 17p., mimeogr. 1932.

39. Clark, Edna L. Changing use of textile fibers in clothing and household articles. U. S. Dept. Agr. Misc. Pub. 31, 55p. 1928.

40. Cox, A. B. Cotton prices and markets. U. S. Dept. Agr. Bul. 1444, 77p. 1926.
Uses for cotton, p.2-3.

41. Davis, Mary A. Children's rompers. U. S. Dept. Agr. Leaflet 11, 8p.. 1927.
Description and illustrations of children's clothes for which "cotton materials are the most appropriate as they will withstand frequent washing."

42. Holman, H. P., and Jarrell, T. D. Waterproofing and mildewproofing of cotton duck. U. S. Dept. Agr., Farmers' Bul. 1157, Rev. ed., 9p. 1931.
Use of cotton duck, p.1.
Selection of cotton duck for farm use, p.3-5.

43. Killough, H. B., Strang, P. M. and Cheatham, R. J. Cotton bags in the wholesale grocery trade. A preliminary report. U. S. Dept. Agr., Bur. Agr. Econ., Div. Cotton Marketing, Utilization Amer. Cotton Ser. 2, 9p., mimeogr. 1927.

43a. Killough, H. B. A partial list of uses of American raw cotton. A preliminary report. U. S. Dept. Agr., Bur. Agr. Econ., Div. Cotton Marketing, Utilization Amer. Cotton Ser. 1, 19p., mimeogr. 1927.

44. Meadows, W. R. Economic conditions in the Sea-Island cotton industry. U.S. Dept. Agr. Bul. 146, 18p. 1914.
Includes discussion of uses for Sea-Island variety of cotton, referring particularly to tire cloths.

45. O'Brien, Ruth. Selection of cotton fabrics. U. S. Dept. Agr. Farmers' Bul. 1449, 22p. 1926.

46. O'Brien, Ruth. Sun suits for children. U. S. Dept. Agr. Leaflet 24, 8p. 1928.
Suggestions and illustrations of sun suits fashioned from cotton materials.

47. Park, John. Use of cotton bags as consumer packages for potatoes. U. S. Dept. Agr., Bur. Agr. Econ., Div. Cotton Marketing, Utilization Amer. Cotton Ser. 9, 7p., mimeogr. 1929.

48. Strang, P. M. Quality of the cotton spun in the U. S. (year ending July 31, 1928) U.S. Dept. Agr., Bur. Agr. Econ., Div. Cotton Marketing, Utilization Amer. Cotton Ser. 8, 14p., mimeogr. 1929.
Cotton consumed in specified industries, namely the rubber, pyroxylin-coated fabrics, oilcloth, and mercerized yarn industries., p.11-12.

49. Strang, P. M. Staple length of foreign grown cottons consumed in the United States, 1928-31. U. S. Dept. Agr., Bur. Agr. Econ., Div. Cotton Marketing, Utilization Amer. Cotton Ser. 12, 6p., mimeog. 1932.
In estimating the consumption of foreign grown cotton in the United States, it was found that Egyptian cotton goes into goods manufactured for the rubber, thread, mercerizing and fine goods trade; Peruvian cotton is used largely in the asbestos and part-woolen industries; Indian cotton is used for felts, cotton batting and yarn in the knitting trade, while Chinese cotton is used mostly in the cotton and part-woolen blanket industry.

50. Taylor, Fred. Manufacturing and laboratory tests to produce an improved cotton airplane fabric. U. S. Dept. Agr. Bul. 882, 48p. 1920.
After experimenting with various fabrics, some of silk, some of ramie and some of cotton, in an effort to duplicate the qualities possessed by linen airplane fabrics, "the results indicated that long-staple cotton might be used as the best available substitute for linen in the manufacture of airplane fabric."

51. U. S. Dept. of agriculture. Floors and floor coverings. U. S. Dept. Agr. Farmers' Bul. 1219, 29p. 1921.
Rag carpets and rugs, p. 19. Reference is made to the first woven carpets probably made on a hand loom with a warp of cotton string and a filling of narrow strips of cotton rags. New cotton rugs uniform in size, color, and texture are now used, suitable for summer cottages, bedrooms and bathrooms.

52. U. S. Dept. of agriculture. Bureau of agricultural economics. Division of information. Cotton in the home; an exhibit prepared by the U. S. Departments of agriculture and commerce, and the Cotton-textile institute cooperating, National cotton show, Memphis, Tenn., Sept. 28 to Oct. 5, 1929. 8p. Washington, 1929.
Prepared by J. C. Gilbert.
Describes cotton floor coverings, draperies, bedding, toweling and cotton articles suitable for a four-room house.

53. Viemont, Bess M. Cotton is utilized as new foundation material for making hooked rugs. U. S. Dept. Agr. Yearbook 1932: 558-560. 1932.

54. Viemont, Bess M. Window curtaining. U. S. Dept. Agr. Farmers' Bul. 1633, 29p. 1930.
Suggests cotton as a suitable fabric for curtains.

55. Willis, H. M. Utilization of Pima cotton. U. S. Dept. Agr. Bul. 1184, 26p. 1923.
Uses and manufacturing qualities of Pima cotton, p. 4-5.

55a. Youngblood, Bonney, Cheatham, R. J. and Nixon, R. L. Cotton bagging for cotton. A preliminary report. U. S. Dept. Agr., Bur. Agr. Econ., Div. Cotton Marketing, Utilization Amer. Cotton Ser. 4, 13p., mimeogr. 1928.

PUBLICATIONS OF THE U.S. DEPARTMENT OF COMMERCE

56. Clark, W. A. G. Cotton goods in Canada. U. S. Dept. Com., Bur. Foreign and Dom. Com., Spec. Agents Ser. 69, 50p. 1913.
Cottons required by rubber companies, p.28-29.

57. Crosby, E. C., and Skliar, Robert. Use of cotton goods in the boot and shoe industry. U. S. Dept. Com., Bur. Foreign and Dom. Com., New Uses for Cotton Ser. Bul. 3, 12p., multigr. 1929.

58. Ehrman, H. A. Cotton in the rubber tire and tube industry. U. S. Dept. Com., Bur. Foreign and Dom. Com., New Uses for Cotton Ser. Bul. 6, 12p., multigr. 1929.

59. Ehrman, H. A. Hospital survey; use of color in hospitals. U. S. Dept. Com., Bur. Foreign and Dom. Com., New Uses for Cotton Ser. Bul. 2, 8p., multigr. n.d.
"This is the second in a series of articles which deal with the possibility of increase in the use of a cotton product."

60. Holton, L. M. The use of cotton in interior decoration. U. S. Dept. Com., Bur. Foreign and Dom. Com., New Uses for Cotton Ser. Bul. 7, 10p., multigr. 1929.

61. Lockwood, J. B. Automobile trunk. U. S. Dept. Com., Bur. Foreign and Dom. Com., New Uses for Cotton Ser. Bul. 9, 3p., multigr. 1930.

62. Lockwood, J. B. The awning; a study of outstanding features in the manufacture and distribution of awnings. U. S. Dept. Com., Bur. Foreign and Dom. Com., New Uses for Cotton Ser. Bul. 4, 34p., multigr. 1929.

63. Lockwood, J. B. Athletic field tarpaulins. U. S. Dept. Com., Bur. Foreign and Dom. Com., New Uses for Cotton Ser. Bul. 10, 3p., multigr. 1930.

64. Lockwood, J. B. The citrus tent; scale control through the cotton fabric fumigation tent. U. S. Dept. Com., Bur. Foreign and Dom. Com., New Uses for Cotton Ser. Bul. 5, 4p., multigr. n.d.

65. Lockwood, J. B. Cotton and miniature golf. U. S. Dept. Com., Bur. Foreign and Dom. Com., New Uses for Cotton Ser. Bul. 11-A, rev. ed., 4p., multigr. 1930.

66. Lockwood, J. B. The play tent. U. S. Dept. Com., Bur. Foreign and Dom. Com., New Uses for Cotton Ser. Bul. 8, 4p., multigr. 1929.

67. Lockwood, J. B. The tarpaulin; winter use of tarpaulins in the construction industry. U. S. Dept. Com., Bur. Foreign and Dom. Com., New Uses for Cotton Ser. Bul. 1, 6p., multigr. 1929.

68. McGowan, F. R. Comparative wearing qualities of Pima and ordinary cotton used in mail bags. U. S. Dept. Com., Bur. Standards., Technol. Paper 277, 11p. 1925.
"The general characteristics of Pima cotton are discussed together with the reasons for attempting to find new uses for this type."

69. U. S. Dept. of commerce. Bureau of foreign and domestic commerce. Cotton fabrics and their uses. Rev. ed., 45p. Washington, 1930.

70. U. S. Dept. of commerce. Bureau of foreign and domestic commerce. Foreign markets for cotton linters, batting, and waste. 84p. Washington, 1918. (Special Cons. Repts. 80)
A discussion of the manufacture and utilization of cotton linters, batting, and waste before the war in the world's leading centers of industry and commerce.

71. U. S. Dept. of commerce. Bureau of standards. Cotton cloth for rubber and pyroxylin coating. 14p. Washington, 1931. (Com. Standard CS32-31)
"The cloth shall be made of cotton thoroughly cleaned and carded, free from waste, and shall be of good commercial quality, evenly woven."

72. U. S. Dept. of commerce. Bureau of standards. Cotton fabric tents, tar-paulins, and covers. 16p. Washington, 1931. (Com. Standard CS28-32.)

73. U. S. Dept. of commerce. Bureau of standards. Hospital rubber sheeting. 16p. Washington, 1932. (Com. Standard 38-32.)
"The sheeting shall be made from a cotton fabric coated on one or both sides, as specified, with a rubber compound."

74. U. S. Dept. of commerce. Bureau of standards. Polished cotton twine. 16p. Washington, 1932. (Simplified Practice Recommendation RL24-31.)

75. U. S. Dept. of commerce. Bureau of standards. Regain of mercerized cotton yarns. 10p. Washington, 1929. (Com. Standard CS11-29.)

PUBLICATIONS OF OTHER GOVERNMENT ESTABLISHMENTS

76. Baker, R. K. The poultry house. 4p. Saskatoon, Saskatchewan, 1930.
(Saskatchewan Univ., Col. Agr., Ext. Bul. 46.)
Suggestions for construction of a good poultry house include the following; "Thin, unbleached cotton used as windows provides an even temperature and fresh air without draughts. Two-thirds cotton and one-third glass is about the right proportion."

77. U. S. Tariff commission. Broad-silk manufacture and the tariff. 46lp. Washington, 1926.
Cotton yarns, p. 70. "Cotton yarns, used in the broad-silk industry proper, mainly as filling material, go chiefly into cotton-back satins, poplins, failles, tie silks, crepes, imitation pongees, umbrella cloths and upholstery cloths."

78. U. S. Tariff commission. Rag rugs. A report of facts obtained in an investigation of the costs of production of rag rugs for the purpose of section 315 (flexible tariff provisions) of the tariff act of 1922. 35p. Washington, 1928.
"The materials in a rag rug consist of cotton yarn used for warp and rags which make the filling."

79. U. S. Tariff commission. Tariff information surveys... cotton cloths provided for each nominee. Rev. ed., 5lp. Washington, 1923.
Descriptive information regarding various cotton cloths, including tracing cloth, cotton cloth filled or coated, cotton window hollands, water-proof cloth of cotton, cotton pile fabrics, tapestries and cotton table damask.

80. U. S. Tariff commission. Tariff information surveys... cotton knit goods. 6lp. Washington, 1921.
Includes hosiery, gloves, and knit wearing apparel, with general information as to processes of manufacture, competition, marketing, and domestic and foreign production.

81. U. S. Tariff commission. Tariff information surveys... countable cotton cloths. 162p. Washington, 1921.
Detailed information regarding the character of countable cotton cloths, the term cotton cloth being designated to include "all woven fabrics of cotton in the piece, whether figured, fancy or plain."

82. U. S. Tariff commission. Tariff information surveys... household articles of cotton. 16p. Washington, 1922.

PERIODICAL ARTICLES

83. Another use for cotton. Cotton and Cotton Oil News 32 (2): 10. Jan. 10, 1931.
A flexible wall covering has been perfected which will prove very serviceable for interior decoration.

84. Answering a subscriber. A brief talk about early bedding. Droll Trade Jour. 10 (3): 54-56. March, 1932.
In tracing the history of the mattress it is said that about 1870, perhaps a decade earlier, "there was the first overproduction of cotton down South. In the quest for new uses for cotton, the mattress was mentioned by prominent Southerners of that time."

85. Ashley, W. J. Germany and cotton. Atlantic Monthly 117 (1): 110-122. Jan., 1916.
The importance of cotton during the war, details of its enormous consumption, and discussion of its use in the manufacture of explosives.

86. The attraction of fine cottons. Products in which Lancashire excels. Manchester Guardian Commercial, Annual Review of the British Trade, Jan. 30, 1932, p. 12.
Describes the products made from Lancashire's fine-spun yarns.

87. Aviation guides of cotton; letters on roofs in China to give name of town. Textile World 76 (6): 797. Aug. 10, 1929.

88. Ball, H. A. Textile men display ingenious minds. Cotton Trade Jour. 11 (12): 107. March 21, 1931. (Internat'l. Trade Ed.)
Describes some new uses for cotton.

89. Barnwell, E. H. Cotton and the automobile tire. *Textile World* 58 (2): 249. July 10, 1920.
"Cotton comprises a large part of tires - gives tire its strength."

90. Barton, E. E. Saving crops with cotton hay caps. *Bur. Farmer* 5 (9): 11. May, 1930.

91. Beavens, Ellen K., and Wigington, J. T. Cotton fabrics suitable for hooked rug foundations. *Textile World* 81 (8): 708-710. Feb. 20, 1932.
Report of a study made by the Bureaus of Agricultural Economics and Home Economics of the U. S. Department of Agriculture.

92. Bergamini, Anne. Bags in the home. Many and varied uses in the household for the emptied cotton flour, sugar and other sacks, towards which the housewife has a most pleasant psychology. *Bags* 2 (11): 26. Feb., 1931.

93. Berwald, A. H. Turning cotton into leather. *Comm. and Finance* 14 (17): 855-856. April 29, 1925.

94. British expert, Dr. Lawrence Balls says future of cotton lies in engineering, not in apparel. *Daily News Rec.* 11 (662): 1. April 24, 1931.

95. Busby, H. S. Manufacturing opportunities. *Cotton Trade Jour.* 12 (35): 2. Sept. 3, 1932.
Openings for manufacturers which offer outlets for cotton - cotton wall-covering, canvas overalls, and cotton containers.

96. Burges, A. E. Why not cotton bagging instead of jute? *Cotton and Cotton Oil News* 32 (50): 7. Dec. 12, 1931.

97. Carraway, R. S. Are cotton bags being "pushed"? *Bags* 3 (8): 5, 9, illus. Nov., 1931.
Mentions new uses of cotton bags.

98. Chamberlain, J. Cotton hosiery manufacture. *Textile Weekly* 10 (246): 318-319.
"Cotton yarns form a most important section of the hosiery manufacturer's raw materials and all classes of knitted fabrics and garments are made from cotton yarns or mixtures of cotton and other fibers or yarns."

99. Chamois being replaced by new cotton cloth. *Cotton Trade Jour.* 10 (6): 1. Sept. 6, 1930.

100. Cheatham, R. J. Adversity is the mother of new uses for cotton. *Farm and Ranch* 50 (25): 2. June 20, 1931.
Comments on the many-sided role cotton plays in the agriculture and industry of the world.

101. Cheatham, R. J. A comparison of the practical uses of cotton and jute. *South. Textile Bul.* 42 (14): 3-4, 7. June 2, 1932.
Address before annual meeting of American Cotton Manufacturers Association, Atlanta, Ga., May 20-21, 1932.

102. Cheatham, R. J. Cotton cloth for curing concrete. South. Textile Bul. 41 (16): 10, 27. Dec. 17, 1931.

103. Chemists develop cotton substitute for parachute silk. Amer. Dyestuff Rptr. 18 (13): 544. Aug. 5, 1929.

104. Clark, Edna L. Is cotton holding its own for household uses? Com. and Finance 17 (15): 821. April 11, 1928.
Results of a questionnaire distributed to homemakers in various parts of the country asking for a report on the number of household articles such as bedspreads, window curtains, etc. made of specified fabrics - cotton, linen, silk, rayon or wool - which they had used during the year ending in the spring of 1927 as compared with the number used in the same period five years ago.

105. Clark, Edna L. Uses of cotton in clothing and household articles. Com. and Finance 17 (7): 406. Feb. 15, 1928.
"The lists are not exhaustive but represent the articles which are customarily consumed in the United States today and which contain an appreciable amount of cotton."

106. Clayton, W. L. Cotton - symbol of commercial freedom. Acco Press 10 (5): 6-7, 12-16. May, 1932.
In an address delivered at the annual meeting of the American Cotton Shippers Association, Mr. Clayton remarked that "three fourths of the world's clothing is now made of cotton. In cheapness, serviceability and durability, no satisfactory substitute has ever been found for it."

107. Company prints its magazine on cloth. Okla. Cotton Grower 11 (6): 2. Jan. 10, 1931.
November 1931 issue of the "Protective Life Lines," a monthly publication of the Protective Life Insurance Company of Birmingham, Ala. is printed on cotton cloth.

108. Cotton and hot weather. Fibre and Fabric 85 (2488): 11-14. Oct. 8, 1932.
Report of statement of George A. Sloan "following a nation-wide survey of the summer clothing business" by the New Uses Section of the Cotton-Textile Institute. "Growing acceptance of cool, washable apparel for men" was reported.

109. Cotton as insulating material. South. Textile Bul. 42 (19): 13. July 7, 1932.
Experiments in the production of insulating material consisting in part of low grade cotton or linters suggest an important new use for cotton. "Superiority of cotton for insulating purposes is demonstrated by tests of the U. S. Bureau of Standards which show that it is in the front rank of fibrous materials having lowest heat conductivity."

110. Cotton bagging. Internat'l. Cotton Bul. 9 (35): 464. April, 1931.
"It was found that the lightest weight cotton bagging was superior to the regular two-pound jute and burlap usually used around the Egyptian bale which is often praised for its appearance after long overseas trips."

111. Cotton bags and coverings. Cotton Seed Oil Mag. 55 (1): 24-26. Jan., 1927.
"Meal, hulls, cotton linters, waste, cotton cloths and every other cotton products should be put up in cotton coverings."

112. Cotton bags being used successfully for packaging onions for retail sales. Com. and Financ. Chron. 135 (3522): 4295. Dec. 24, 1932.
The Cotton-Textile Institute calls attention to the emphasis that was placed on the re-use value of cotton bags as dishcloths, mop pads, or dusting cloths.

113. Cotton blanket industry in the Netherlands. Textiles in the Netherlands, p. 13. Dec., 1930.

114. Cotton bunting. South. Textile Bul. 42 (20): 33. July 14, 1932.
Cotton bunting is reported to be largely replacing other fabrics in the field for patriotic decorative purposes and the manufacture of flags.

115. Cotton consumption conscious. Manfrs. Rec. 99 (19): 28. May 7, 1931.
"Cotton dress goods, cotton for household use; for industrial purposes, for packaging and wrapping commodities, and cotton covering in place of jute for the cotton bale need to be popularized and more widely used."

116. Cotton containers now used for shipping potatoes and nuts. Cotton Trade Jour. 12 (29): 5. July 23, 1932.
Compares cotton with burlap for this use.

117. Cotton cloth tags. Manfrs. Rec. 101 (17): 44. Apr. 28, 1932.
"Southern grown cotton made into cloth will replace burlap for end wraps used in all baling wire bundles manufactured and sold by the American Steel and Wire Co."

118. Cotton diplomas. South. Textile Bul. 41 (12): 14. Nov. 19, 1931.
"Among the latest and most interesting developments growing out of the use of cotton fabrics for stationery and other printed forms, is the introduction of school and college diplomas engraved in cotton cloth."

119. Cotton fabric used in process of decorating walls of Radio City music hall of Rockefeller Center. Approximately 2,000 yards of monk's cloth required. Com. and Financ. Chron. 135 (3522): 4290. Dec. 24, 1932.
"It had been intended to use a non-cotton fabric but the material selected failed to meet acoustical requirements. Monk's cloth was substituted and the desired results were obtained."

120. Cotton fabrics for aeroplanes and dirigibles. Textile World 49 (3): 325. July, 1915.

121. Cotton fabrics for traffic signs and markers. Textile World 72 (19): 2693. Nov. 5, 1927.

122. Cotton fabrics in road building. South. Textile Bul. 43 (7): 40. Oct. 13, 1932.

123. Cotton for truck casters. Textile World 72 (24): 3406. Dec. 10, 1927.

124. Cotton for typewriter ribbon. Textile World 80 (3): 240. April 9, 1932.

125. Cotton gas please! Fibre and Fabric 85 (2462): 16. April 9, 1932.
"The South's cotton fields may some day become the gasoline service stations of the world. Scientists have discovered that gasoline can be manufactured from cotton. They are merely waiting for the crude oil supply to run out before introducing 'cotton gas'."

126. Cotton homes in the future! Cotton Trade Jour. 12 (15): 3. April 16, 1932.
Description of a LaGrange, Ga. house which is covered with cotton duck instead of stucco.

127. The cotton house. Fibre and Fabric 85 (2491): 16-17. Oct. 29, 1932.
Description of the cotton house designed as a practical solution of America's low-cost housing problem. The article also refers to other new uses for cotton displayed at 1932 annual meeting of the Cotton-Textile Institute.

128. Cotton in explosives. Textile World 51 (46): 4441. Oct. 4, 1916.

129. Cotton-mixed boys' suiting. Amer. Wool and Cotton Rptr. 46 (43): 33, illus. Oct. 27, 1932.
Manufacturing details. Notes that "the cotton in the stock will enable the manufacturer to make a fine yarn, and will also add to the wearing qualities of the cloth."

130. Cotton or hemp? The efficiency of rope drives. Manchester Guardian Com. 23 (591): 352. Oct. 15, 1931.
"Hemp and cotton are both used for making ropes, but to-day the tendency with round ropes is to employ cotton... The chief drawback to hemp for driving ropes is that the softer cotton stands the continuous bending to and fro when passing over the pulleys much better than hemp."

131. Cotton packaging of food proves popular. South. Textile Bul. 40 (14): 31. June 4, 1931.
"Sugar refiners have adopted cotton toweling for bagging their sugar. This type of bag can readily be converted into a kitchen roller towel and has achieved a wide consumer popularity," according to a report of a survey completed by the Cotton-Textile Institute.

132. Cotton road fabric developed. Com. and Finance 17 (9): 507. Feb. 29, 1928.
"The new fabric is a loose cotton mesh for use in the construction of concrete highways. It is laid over a cement base and on top of the fabric the surface of the roadway is molded."

133. Cotton signs a half-mile long at national air races at Chicago. Manfrs. Rec. 98 (3): 55. Sept. 25, 1931.

134. Cotton stationery as a new fabric use. Manfrs. Rec. 78 (9): 45. Aug. 28, 1930.

135. Cotton storage bags for rugs. Melliand Textile Monthly 4 (5): 303. Aug., 1932.
The cotton bags are cylindrical in shape and have zipper fasteners at one end. "Rugs to be stored for the summer or put away indefinitely are rolled and inserted at the zipper end in much the same manner that calendars are placed in mailing tubes. With the zipper end closed the bag is moth-tight and, inasmuch as the cotton fiber itself is impure from attack by the pests, clean rugs are safely stored in these cotton receptacles as long as desired."

136. Cotton tarpaulins can save farmers much money. South. Textile Bul. 43 (3): 11. Sept. 15, 1932.
Report of a survey undertaken by the Cotton-Textile Institute, with a view to determining the investment value of coverings... "From a study of service life statistics, the Institute estimates that use of waterproof cotton tarpaulins would add four years to the average life of farm machinery generally."

137. Cotton to compete with paper. Textile Mercury 84 (2192) ²¹⁹¹: 230. Aug. 28, 1930. ~~March 13, 1931.~~
"There are many decided advantages in favor of cotton cloth as against paper. The appearance and feel of the cloth is far superior to that of paper at the same price and it is certainly far more durable."

138. Cotton used for selling coal; experimentation on bags for retail distribution. Textile World 76 (5): 641. Aug. 3, 1929.

139. Cotton used in high grade bond paper. Amer. Wool and Cotton Rptr. 46 (21): 49. May 26, 1932.
"A new use for cotton, foretelling the consumption of many thousands of pounds a year, is seen in the announcement that the fibers of cotton have been combined with Southern wood fibers in the manufacture of a high grade bond paper... This is reported to be the first time in the history of paper making that a sheet utilizing cotton, suitable and inexpensive enough for volume usage and consisting entirely of southern fibers, has been perfected."

140. Cotton veneer wall coverings. Internat'l. Cotton Bul. 10 (37): 141. Oct./ Nov., 1931.

Description of new use for cotton cloth in the shape of a combination of rare and costly wood veneers backed by cotton material used to replace solid wood paneling in offices, private homes, hotels, restaurants, yachts, showrooms, and department stores, as well as in passenger lifts and airplanes.

141. Cotton wall panelling. Manchester Guardian Com. 23 (591): 348. Oct. 15, 1931.

"It consists of a thin veneer of wood - all types and all colours of wood are represented - affixed to a backing of cotton cloth. This type of wall covering can be fixed on with paste like ordinary wallpaper."

142. Cramer, S. W. Male plumage; cotton dinner suit. Textile World 78 (7): 769. Aug. 16, 1930.

143. Crawford, M.D.C. Renaissance of cotton; better designs and higher standards in texture. Arts and Decoration 15 (5): 302-304. Aug. 16, 1930.

"There is not an individual in the world that does not use some cotton or that could not use a great deal more if it was made to appeal to him in the proper sense and the proper degree."

144. Davis, Arnold. Cotton in road construction. Manfrs. Rec. 101 (28): 13. July 14, 1932.

"Loosely woven cotton cloth, waterproofed with asphalt, is used to cover base and wearing surface of entire road."

145. Davis, William. Some knitted fabric developments. Melliand Textile Monthly 3 (12): 994. March, 1932.

Includes illustrations which show a "meat bag" knitted fabric of cotton yarn and a fleecy cotton-back fabric which is still in good demand for export trade.

146. Dillingham, C. K. Asbestos textiles. Amer. Wool and Cotton Rptr. 46 (25): 13-14, 17-18. June 23, 1932.

In describing the production of asbestos textiles mention is made of the mixing picker, and "it is at this point that the grade or quality of the yarn is determined by the mixture of a certain quantity of vegetable fibre, usually cotton, with the asbestos. Cotton is used to reduce the cost of asbestos yarn to commercial limits. Its great carrying power makes it possible to produce a stronger asbestos yarn from lower grade asbestos or from a higher grade asbestos with lesser waste than without it, and as there is very little necessity for an all asbestos yarn, varying amounts of cotton will be found in practically 98 per cent of asbestos textiles."

147. Dishes that will not break made of cotton. Cotton and Cotton Oil News 31 (2): 11. Oct. 20, 1930.

148. Doorknobs made of cotton to help the farmer. Pop. Mechanics 56 (8): 225. Aug., 1931.

Other new uses emphasized are buttons, automobile paint, combs, movie films, writing paper, shock absorbers, wire insulators and artificial leathers.

149. "Dressing up" potatoes in cotton bags. Cotton Trade Jour. 10 (9): 6. Sept. 27, 1930.

150. Eaton, G. S. Cotton sacks in the cement industry. Cotton 91 (3): 232. Jan., 1927.

"Extremely fine powder is satisfactorily shipped in cotton sacks made of coarse cloth, without appreciable loss through the cement's sifting out."

151. Elastic shoe lace. South. Textile Bul. 41 (2): 31. Sept., 10, 1931.

"A unique contribution to the simplification of life's daily duties is reported to be a cotton covered elastic shoe lace."

152. Electrical uses of cotton. Electrician 106 (2753): 366. March 6, 1931.

"A discussion of the many uses which the electrical industry makes of the cotton product."

153. Elsaesser, Walter. Cotton cloth can be wool-finished. By a special process at the Bellman-Brook Bleachery, cotton fabrics are made wool-like in appearance, feel and wear. Du Pont Mag. 26 (10-11): 10-11. Fall, 1932.

"In transforming cotton cloth to make it suitable for fall and winter use, chemistry has not only enthroned King Cotton more securely, but has also added a new vigor to industry and trade by extending the usefulness of this fiber in regions where only wool was believed to be practicable."

154. Experimental cotton road in Texas. Manfrs. Rec. 98 (2): 43. Nov. 27, 1930.

155. Fabric airway markers. Textile World 75 (7): 1268. Feb. 16, 1929.

156. Fancher, Albert. Cotton magic. Pop. Mechanics 57 (4): 627-628. April, 1932.

"Science is touching cotton with the magic of invention, and amazing things are happening. More and more we work with it, live with it, wear it and use it, in one form or another."

157. Fireproof gloves of cotton resist hottest flame. Pop. Mechanics 58 (1): 182. Aug., 1932.

Very brief description of cotton gloves which, when treated with a chemical are fire resisting.

158. First book entirely on cotton paper issued in Louisiana. Cotton and Cotton Oil News 32 (43): 11. Oct. 24, 1931.

"'Cawn Pone 'n' Pot Liker' by Mrs. Blanche Oliver believed to be the first of its kind ever produced."

159. Foods served from textile bags -- why not? Accepting the widely used tea bag as a criterion, there are possibilities in the utilization of small sacks for household food purposes in this era of new and novel packaging. *Bags* 2 (10): 19. Jan., 1931.

160. George S. Harris explains new uses for cotton. *Cotton* 93 (2): 144. Dec., 1928.
"Here are a few answers to the question which many cotton manufacturers are asking - 'How is it possible to increase the consumption of cotton fabrics in an industry as old as this?' and 'Is it possible to find new uses?'"

161. Gibson, J. J. The field for the textile chemist. *Textile Colorist* 54 (637): 13-16. Jan., 1932.
In emphasizing the importance of textiles the author mentions some unfamiliar uses for cotton. In conclusion he says, "a fair guess is that cotton fields may give way to food, and that reforested areas unfit for agriculture will furnish the cellulose for clothing."

162. Gooding, P. H. Cotton house for hens. *South. Agr.* 61 (10): 26. Oct., 1931.
How to construct a brooder house out of a cheap grade of sheeting material or used cotton feed bags.

163. Gould, G. G. Cotton fabrics for the house. *House and Garden* 45 (6): 62. June, 1924; 46 (1): 58. July, 1924; 46 (2): 52. Aug., 1924.

164. Government exhibit at Greenville. *South. Textile Bul.* 43 (7): 12. Oct. 13, 1932.
In describing an exhibit of the U. S. Dept. of Agriculture details are given of many new and unusual uses for cotton.

165. Graham, J. S. Cotton bags. *Food Indus.* 2 (1): 20. Jan., 1930.

166. Grayson, R. V. Cotton industries. *Manfrs. Rec.* 101 (7): 40. Feb. 18, 1932.
"After much experimental work in designing hermetically sealed units, water proofed and fire resisting for structural insulation and sound proofing as well as for domestic refrigeration and shipping cases, the fact has been demonstrated that cotton has great possibilities in the refrigeration field."

167. Growing market for cotton clothes for men. *South. Textile Bul.* 43 (7): 53. Oct. 13, 1932.
According to a survey made by the Cotton-Textile Institute, cotton suits apparently have reached a position of major importance in the masculine wardrobe.

168. Hammond, C. M. Bond paper from cotton. *Texas Weekly* 8 (36): 7. Sept. 3, 1932.
"King Cotton Bond perfected under the direction of the Olmstead-Kirk Company, contains three-fourths cotton. To be marketed on its merit for quality."

169. Hand-blocking of prints helps cotton fabric in comeback. Okla. Cotton Grower 11 (9): 2. Feb. 25, 1931.

"An art that is said to be more than 3,000 years old is gradually aiding in the comeback of cotton, which may bring the lowly and despised cotton fabric into American homes."

170. Hardecker, J. W. Textiles in modern aircraft construction. Textile World 76 (4): 479. July 27, 1929.

171. Hart, T. R. Attractive suitings woven from coarse cotton yarns. Textile World 81 (19): 1604-1605. May 7, 1932.

172. Hart, T. R. Finds new field for cotton fabrics. South. Textile Bul. 42 (3): 16. March 17, 1932.

Suggests cotton suitings and sports wear for women similar to materials manufactured by Textile School of North Carolina State College.

173. Hines, W. D. The varied utility of cotton. Acco Press 9 (4): 1. April, 1931.

"The pervasive character of cotton products is most amazing. Cotton is with us as we eat, as we bathe, as we play and as we sleep. It binds up our wounds. It is with us at birth and at death. It is with us in the house and in industry."

174. Hodge-podge. Cotton Trade Jour. 11 (22): 6. May 23, 1931.

"A load of cotton going to the gin never knows whether it will eventually be a bottle of 'olive oil', a pound of 'butter', a load of cow-feed, a sack of fertilizer... a state highway, or an automobile tire, or a bolt of durene."

175. Importance of the automobile industry. Manfrs. Rec. 99 (4): 25. Jan. 22, 1931.

"Cotton fabric used in the manufacture of tires represented 195,770,000 pounds of raw cotton in 1930. In addition much cotton enters into production of motor vehicles in upholstering and cellulose lacquers."

176. Increased use of cotton in mattresses. South. Textile Bul. 42 (22): 6. July 28, 1932.

The importance of the mattress as a cotton consumer is emphasized.

177. Increasing uses of cotton. Internat'l. Cotton Bul. 6 (24): 691. July, 1928.

178. Insulating material made of low grade cotton or linters. Melliand Textile No. 4 (5): 315. Aug., 1932.

Insulating material consisting in part of low grade cotton or linters is now being tried out in containers for the shipment of "dry ice" and several selected products requiring refrigeration in transit.

179. Jacobs, M. H. Substituting cotton bagging for burlap and paper. Com. and Finance 16 (1): 49. Jan. 5, 1927.

180. Johnson, H. S. A new technique in road construction. Amer. City 43 (2): 145. Aug., 1930.
Use of cotton membrane instilled in bituminous surface mat construction.

181. Johnson, R. Cotton in the air. Textile World 77 (10): 1506-1507. March 8, 1930.

182. King Cotton enters home as decorator. Okla. Cotton Grower 11 (13): 3. April 25, 1931.

183. Kirsner, H. Textile fabrics for military purposes. Amer. Dvestuff Rptr. 20 (8): 268-272. April, 27, 1931.
Includes specifications for cotton cloth.

184. Landberg, O. Uses for American cotton. Amer. Fert. 65 (8): 46. Oct. 16, 1926.
Emphasizes need of quality and staple for raw cotton requirements and enumerates various uses of cotton.

185. Let's diversify and prosper. Cotton 96 (9): 29, 69, 71, 73. Sept., 1932.
"The cotton industry, with its ages of tradition, is renewing itself and realizing possibilities from the ever-widening field of human activities in the way of material things. It has been said that there are 10,000 potential uses for cotton." Mentions new outlets for cotton manufacture, such as umbrella cloths, tire fabrics, and combinations with rubber as in raincoats.

186. Low price cotton collar to discard after once worn is aim of Lancashire research. Daily News Rec. 11 (641): 15. March 24, 1931.
Part of new-uses-for-cotton campaign.

187. McCampbell, L. Replacement of cotton fabrics for jute burlap. Textile World 75 (5): 768. Feb. 2, 1929.

188. McCarty, S. C. Roadbed covered with cotton sheets before surfacing. Engin. News Rec. 108 (10): 355, illus. March 10, 1932.
Describes road built near Gonzales, Texas.

189. McGarry, W. A. Cinderella cotton meets her prince; Valway chenille rugs. Printers Ink Mc. 21 (2): 39-40. Aug.; 1930.

190. McMahon, J. R. Growing wings for airplanes. Country Gent. 82 (52): 2046-2047. Dec. 29, 1917.

191. McLaurine, W. M. The follow through of National Cotton Week. South. Textile Bul. 40 (15): 24-25. June 11, 1931.
The author discusses uses of cotton, with special reference to its sanitary properties.

192. Martin, R. I. Cotton textiles for electrical insulation. Textile Inst. Jour. 22 (11): P165-P180. Nov., 1931.

"From early days the growth of the electrical industry has been very much dependent upon the successful use of cotton textiles, and they have naturally entered more and more into the construction of motors, transformers, cables and other apparatus. This paper is intended to provide those in the textile industry with a general idea of the extent to which cotton products are used as electrical insulating materials, details of the main purposes for which they are required and information concerning the technical aspect of the properties and other features affecting the successful employment of cotton goods for such purposes."

193. Miniature golf increasing use of cotton fabrics. Com. and Financ. Chron. 131 (3404): 1790. Sept. 20, 1930.

194. More cotton used for wrapping textiles. South. Textile Bul. 43 (3): 9. Sept. 15, 1932.

"On and after Sept. 20, 1932, according to the Cotton-Textile Institute, New York City, railroads in all parts of the United States will accept at the usual rates shipments baled in cotton for delivery to any destination on their lines. This arrangement by all roads completed the initial action taken by various leading carriers after tests had demonstrated cotton success as a baling material."

195. More new uses for cotton. Fabrics for shoes and storage bags. Textile Weekly 9 (227): 436. July 8, 1932.

Based on reports of new uses for cotton in American cities, announced by the Cotton-Textile Institute of New York. The article also states that in London, cretonne is being used for children's sandals, previously made of leather or plain canvas. Cotton pique is being employed by French firms for handbags.

196. Morse, E. C. Cotton for cement sacks. Textile World 73 (15): 2381. April 14, 1928.

197. Nasmith, Frank. New uses for cotton. Practical application in road-making. Textile Weekly 8 (133): 13-14. Sept. 4, 1931.

This article tells something of what is being done in the United States, indicating the progress which has been made in the use of cotton fabric for road making.

198. Nelson, Thomas. Variety and strength are key words in making cotton show fabrics. Textile World 80 (9): 763. Aug. 29, 1931.

199. Neuberger, Albert. Manufacture of medical cotton. Melliand Textile No. 1 (6): 892-897. Sept., 1929.

"As raw materials for the manufacture of medical cottons, clean white cotton as well as reworked cottons, waste of cotton spinning plants, nappers, etc., is used."

200. New and extended uses for cotton dramatized at trade rally. *Textile World* 80 (17): 1597-1599. Oct. 24, 1931.
Description of exhibit of cotton products for increased cotton use by Mr. George A. Sloan.

201. New and less known uses of cotton. *Textile Weekly* 7 (158): 46-47. March 13, 1931.
Discusses uses for cotton in road making, stationery, shoes, aviation, in electrical and engineering industries and for industrial purposes.

202. New and novel use for cotton. Publicity with pictures. *Manchester Guardian Com.* 24 (606): 65. Jan. 30, 1932.
Head-rests made of strong Lancashire cotton cloth will in the future be used on British trains. These rectangles of cotton cloth will be printed to advertise certain products.

203. New asbestos plant that uses cotton extensively is organized in Kentucky. *Cotton and Cotton Oil News* 31 (27): 7. July 7, 1930.

204. New cotton uses. The story of an aggressive campaign. *Textile World* 82 (4): 765-768. Oct., 1932.
Describes the efforts to promote new and extended uses for cotton of the New Uses Committee. Besides mentioning, in detail, many ways of utilizing cotton, illustrations depict the latest discoveries.

205. New dirigible uses much cotton. *South. Textile Bul.* 42 (21): 20-21. July 21, 1932.
"When the huge airship 'Macon', the Navy's newest dirigible soars on its trial trip, it will wing its way through the air on 92,000 square yards of cotton."

206. New harness straps. *Fibre and Fabric* 85 (2464): 14. April 23, 1932.
Jack and harness straps made of cotton for use by cotton mills have proven satisfactory after being tested for uniformity, durability, and stretching.

207. New transparent wrapping material from cotton. *Manfrs. Rec.* 101 (7): 22. Feb. 18, 1932.
"Kodapak", manufactured by the Eastman Kodak Co., is made from cotton cellulose acetate. It has a brilliant, glass-like clarity, and a silvery appearance when crumpled in the hand. Its limpness permits it to fold easily and neatly and it withstands the action of water. It does not have a tendency to become brittle in extreme cold and will withstand high temperatures without coloring.

208. New use for cotton. *Fibre and Fabric* 84 (2441): 23. Nov. 14, 1931.
"Through the co-operative effort during the past two years of the Textile Division of the Bureau of Foreign and Domestic Commerce and the New Uses Section of the Cotton-Textile Institute additional consumption of medium weight cotton fabric has been obtained through the promotion of a new use in the form of attractive show bags."

209. New use for cotton. Oil Miller and Cotton Ginner 40 (1): 7. March, 1932.

"The Eastman Kodak Company has begun production of a transparent wrapping material made from cotton called 'Kodapak.' Cotton in the form of cellulose nitrate is used also by the Eastman Kodak Company in manufacturing all types of film that are not made of cellulose acetate."

210. New use for cotton cloth. Com. and Finance 21 (13): 456. March 30, 1932.

A machine and a material have been produced which "superimposes" cotton cloth in its most intricate designs and colors on wood. "The finish is not only beautiful but durable and cannot be marred by cigarette burns or the highest proof alcohol. The panels remind one of old tapestry and should have a wide variety of uses."

211. New uses for American cotton. Ingenious attempts to create a greater demand for cotton fabrics. Textile Weekly 8 (205): 595. Feb. 5, 1932.

Enumerates recently developed new uses for cotton, including cotton bags for sugar, stationery, etc. The statement is made that "the field which seems to offer the most promising opening for exploitation is that now held by the manufacturers of paper."

212. New uses for cotton. Fibre and Fabric 84 (2431): 11. Sept. 5, 1931.

Cotton duck has been found highly satisfactory as an outside finish material and has been used in place of stucco for the construction of homes and especially bungalows.

213. New uses for cotton. Sci. Amer. 147 (5): 302. Nov., 1932.

Cotton in laminated form adds many new uses for cotton. Seven of them are listed.

214. New uses for cotton. Textile Weekly 9 (231): 525. Aug., 1932.

"Dust bags for vacuum cleaners, cotton stuffing for mattresses, insulating material using cotton, the return of cotton in fashion favour", are mentioned.

215. New uses of cotton. Melliand Textile Mo. 4 (7): 420, 431, 446, 449. Oct., 1932.

Compilation of news items gathered by the New Uses Section of the Cotton-Textile Institute refer to the use of cotton filling in mattresses; cotton bunting; cotton fabric for roofing purposes; cotton neckwear for men; laminated cotton for bearings; safety helmets of laminated cotton; cotton for running boards for automobiles; cotton sacks for fruit and produce, and cotton for airship construction.

216. New uses for cotton. "Slacks" and sportswear. Textile Weekly 10 (237): 62. Sept. 16, 1932.

Mentions various types of cotton fabric used and opportunity for development along this line.

217. A novel cotton fabric. Manchester Guardian Com. 24 (607): 90. Feb. 6, 1932.

"Cotton manufacturers are often told that their productions are more suitable for summer than for winter wear and that there is need for more cotton fabrics which are warm without being heavy and which have body without being bulky. A new cotton cloth has just been brought out by a Lancashire firm which conforms to some of these requirements."

218. O'Brien, Ruth. Utilization of cotton in homes of the nation. U. S. Daily 7 (124): 1002. July 23, 1932.

219. "Old Ironsides" gets new sails. Textile World 80 (3): 217. July 18, 1931.

Interesting facts about the marine use of canvas were brought out when the reconstructed frigate Constitution, "Old Ironsides," put out from Boston for an exhibition cruise. "Today cotton sails the high seas on great ocean liners, instead of picturesque square riggers, and contrary to popular belief, far greater quantities are used than ever in the old days. The modern liner uses some 15,000 square yards of duck for various deck coverings, awnings, life boats, equipment and flue covers; on the battleship up to 20,000 square yards, while the old sailing ship consumed an average of 12,000 square yards for sails."

220. Paper from raw cotton. U.S. Bureau of Standards, Tech. News Bul. 179: 27. March, 1932.

Judging from the consensus of opinion, the use of raw staple cotton for paper making hinges largely on economic factors. "It is of interest that, according to historical records, raw cotton was the first source of cotton fibers for paper making, being largely used, apparently, from the seventh century until the eleventh century, when it began to be displaced by waste textile materials."

221. Park, L. The automobile tire industry. Jour. Accountancy 54 (3): 202-221. Sept., 1932.

A general discussion of the manufacture of automobile tires. In explaining construction the statement is made that "rubber gives flexibility to the tire, but, without additional strength, this flexibility would soon result in destruction of the tire in use. The additional strength is obtained from cotton cord and fabrics, hence the names 'cord tires' and 'fabric tires'!"

222. Pickard, E. T. Miscellaneous uses of cotton. Com. and Finance 14 (17): sect. 2, 863-864. April 29, 1925.

223. Price, T. H. Cotton floor coverings. Com. and Finance 16 (27): 1377. July 6, 1927.

224. Recovering old uses for cotton. Amer. Wool and Cotton Rptr. 45 (13): 36. April 30, 1931.

225. Reynolds, J. Manufacture of cotton cloths for military uses. Textile World Jour. 53 (28): 288. Jan. 12, 1918.

Particulars and illustrations of Government fabrics for surgical dressings, binder bandages, soldiers' capes, standard sheetings, silesia, olive-drab shelter tents, heavy tent duck, covering duck, corset jeans, bobbinette and marquisette are given, with suggestions for suitable yarns.

226. Rice, George. Dyeing cotton stationery. *Textile Colorist* 54 (638): 100-101. Feb., 1932.

Although this article deals mostly with the process of dyeing cotton stationery, mention is made of the extension of the cotton stationery idea into the field where paper gifts and visiting cards, theater programs, menu fares and announcements have long held first position.

227. Rice, George. Manufacture of cotton linings for the packaging industry. Both flat and pile fabrics are used. *Textile Amer.* 56 (6): 21. Dec., 1931.

Describes the use of cotton velvet for lining gift boxes.

228. Rice, George. The manufacture of wall cloth. Its adoption by interior decorators beneficial to the textile industry. *Textile Amer.* 58 (2): 11-12, diagrs. Aug., 1932.

Describes preparation of cotton materials for wall cloth.

229. Richardson, L. S. New "show-window" bag. *Bags* 2 (12): 11-12, illus. March, 1931.

"Duplex cotton sack devised by government expert for retail distribution of potatoes, onions and other vegetables is of open mesh on one side, displaying contents."

230. Richardson, T. C. Cotton - the raiment of queens. The fleecy staple has run the gauntlet of human garb; now it enters palaces again. *Farm and Ranch* 49 (10): 2, 13-14. March 8, 1930.

"So cotton is back. It has never had a rival in usefulness." Comparison of former uses with present varieties of uses.

231. Robertson, A. C. Preservation of textile fish nets. *Indus. and Engin. Chem.* 23 (10): 1093-1098, illus. Oct., 1931.

Compares the use of cotton and other fibers in making nets and describes various methods of treating nets to preserve them from deterioration caused by bacteria, etc.

232. Rubber-cotton loom parts. *Textile World* 61 (4): 277. Jan. 23, 1932.

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